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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/034,163	12/27/2001	Joong Jeon	G0518	1562	
75	90 03/19/2003				
Joseph J. Crimaldi			EXAMINER		
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1621 Euclid Avenue Cleveland, OH 44115			ART UNIT	PAPER NUMBER	
Ciovolana, Cir			2823		
			DATE MAILED: 03/19/2003	DATE MAILED: 03/19/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) JEON, JOONG				The state of the s				
Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address – Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply applied above is less than thry (00 days, a wip within the standard present of the proof of the period of the period for reply applied above is less than thry (00 days, a wip within the standard present of the period of the period for reply applied above is less than thry (00 days, a wip within the standard present and the period of the			Application No.	Applicant(s)				
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2a) This action is FINAL. 2b) This action is non-final. 3	TH - 6 - 1 - 1 - 1 - 6 - 6 - 6	E MAILING DATE OF THIS COMMUNICAT extensions of time may be available under the provisions of 37 (after SIX (6) MONTHS from the mailing date of this communicated the period for reply specified above is less than thirty (30) days for No period for reply specified above, the maximum statutory railure to reply within the set or extended period for reply will, by nry reply received by the Office later than three months after the arned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of th period will apply and will expire SIX (6) MO y statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ⊠ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☒ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☒ The proposed drawing correction filed on 07 January 2003 is: a) ☒ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * o) □ None of: 1 □ Certified copies of the priority documents have been received. 2 □ Certified copies of the priority documents have been received in Application No 3 □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s)	1)[Responsive to communication(s) filed on	n <u>07 January 2003</u> .					
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Application/Control Number: 10/034,163

Art Unit: 2823

DETAILED ACTION

Specification

1. The objection is maintained as stated in paragraph 5 of the Office Action mailed on 11/6/02. Furthermore, silicon cannot perform the function of the gate dielectric because silicon is a semiconductor and not a gate dielectric.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-20 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the process of claim 1 and further including that the standard-k dielectric material is one of the materials recited in claim 2 and the high-k dielectric is one of those recited in claim 6, does not reasonably provide enablement for recitation of "high-k dielectric material" and "standard-k dielectric material" broadly. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims. Chemical reactivity is a most unpredictable and empirical art and it is well settled that the requirement that the claims be commensurate in scope with the enabling disclosure is particularly stringent in this area of technology. In re Doumani 126 USPQ 408, In re Grant 134 USPQ 248, In re Fisher 166 USPQ 18, Mobil Oil Corporation v. W. R. Grace and Company 180 USPQ 418, In re Slocombe 184



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USPQ 740, In re Mercier 185 USPQ 774, Corona Cord Tire Company v. Dovan Chemical Corporation 192 CD 255, See In re Hawkins 174 USPQ 157 (pg. 163) reasoning is sufficient, evidence is not required.

Response to Arguments

4. Applicant argues that the terms, "high-k dielectric material" and "standard-k dielectric material", are defined on instant specification page 6. However, the terms are only defined with respect to the dielectric constant as opposed to materials or chemical nature of materials and it would required undue experimentations of one ordinary skill in the art to determine suitable combinations of "standard-k dielectric material" and "high-k dielectric material" that will form a composite dielectric layer as recited.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,



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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suk-San Foong whose telephone number is 703-305-0383. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 (7724, 3431, 3432).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

March 11, 2003

Primary Examiner Art Unit 2823